



Flat Ridge Wind Facility

Joe Mills – Facility Manager

alternativenergy

Flat Ridge Wind Facility - Overview



- A 100 MW Wind Facility located ~24 miles southeast of Pratt, KS in Barber County consisting of 40 Clipper Liberty C-96 turbines, each rated at 2.5 MW
- Located on leases totalling more than 5,000 acres
- Owners are Westar Energy, Inc and Flat Ridge Wind Energy, LLC (a wholly owned subsidiary of BP Alternative Energy)
- Westar Energy, Inc. owns 50% of the Flat Ridge Wind Facility and will cause its half of the facility to be operated to serve its customers
- Flat Ridge Wind Energy, LLC has entered into a long-term power sales agreement with Westar Energy, Inc. to sell the energy from the remaining 50 MW of Flat Ridge Wind Facility to Westar
- Interconnection to the grid via the Sunflower Electric Power Cooperative balancing authority area, which is part of the Southwest Power Pool (“SPP”) regional reliability organization region.

Flat Ridge Wind Facility - Construction



- Construction commenced in April 2008 with road cutting and foundation excavation



Flat Ridge Wind Facility - Construction



Turbine foundation and pedestal following concrete pouring



Flat Ridge Wind Facility – Turbine Erection



- Turbine Erection



Turbine base and lower tower section being installed

Gearbox being installed into a Nacelle



Flat Ridge Wind Facility – Additional activities



- Collection system trenching, transmission lines and substation



Flat Ridge Wind Facility – Key Stats



- Key statistics:
 - Over 4 miles of transmission line installed
 - ~18 miles of collection system cable installed
 - Received over 520 truckloads of equipment and parts
 - Over 117,000 total hours worked with 220 staff at the peak of construction
 - Employed five cranes in the installation process
 - Included over 16 companies in the Engineering, Procurement, Construction and Commissioning
 - Average of 58,000 miles driven each month in support of the construction.
 - Activities aligned with growing seasons as much as possible to minimize crop damage.

Flat Ridge Wind Facility – Project Completion



- The Flat Ridge Wind Facility achieved commercial operation in March 2009.



Flatridge Wind Facility-Turbine Completion



Flatridge Wind Facility-Turbine Completion



Environmental and Wildlife Impact



- Site personnel conduct weekly checks for avian fatalities.
- Contracted professional services of West, Inc. to provide bat monitoring and avian research.

Environmental and Wildlife Impact



Community Involvement



- Participate in local events to include:
- Youth Fishing Tournament Sponsor
- County Livestock Show and Auction
- Youth Rodeo Sponsor
- Oktoberfest Car and Bike Show Sponsor